

**CHROMATOGRAPHIC ANALYSIS ON OPTICAL BIO-DISCS AND METHODS
RELATING THERETO**

Abstract of the Disclosure

Preparation and analysis of biomedical samples is performed using an optical bio-disc system. More specifically, chromatography, including for example, affinity, size exclusion, reverse phase, and ion exchange may be performed using an optical bio-disc system. Ion exchange chromatography may include anion exchange, cation exchange, cation exchange linked immunoassays (CELIA), and anion exchange linked immunoassays, in conjunction with colorimetric and/or fluorescent detection and quantization using an optical analysis disc or optical bio-disc. Improved methods for preparing assays, methods for depositing the reagents required for the assays, discs for performing assays, and detection systems are described herein.

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